

WHAT IS CLAIMED IS:

1. A method for removing Mn from cobalt sulfate solution comprising the steps of:

5 adjusting pH of the solution within the range of above 2.5 to 6 ;

adding the NaOCl to the solution to obtain an oxidation-reduction potential in the range of 1100 to 1300 mV with respect to standard hydrogen electrode (SHE) ;and

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removing Mn precipitate from thus treated solution.

2. The method of claim 1 wherein the precipitated Mn is removed by a solid/liquid separation.

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3. The method of claim 2 wherein the solid/liquid separation is a filtration.

4. The method of claim 1 wherein the temperature of the cobalt sulfate solution during oxidative precipitation process is 20°C to 100°C.

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5. The method of claim 1 wherein the oxidative agent is added to the solution at a rate of 0.001 to 0.005

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L/(L*min).

6. The method of claim 1 wherein the pH of the solution
is adjusted to in the range of 1.5 to 2.5 during
5 the oxidative precipitation process.